

# PATENT SPECIFICATION



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306,082

Application Date (in United Kingdom): Feb. 1, 1929. No. 3448/29.

Complete Accepted: April 3, 1930.

## COMPLETE SPECIFICATION.

### Improvements in Automatic Small Arms.

We, FABRIQUE NATIONALE D'ARMES DE GUERRE, of Herstal-les-Liege, Belgium, a body corporate, organised under the laws of Belgium, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to an automatic pistol having a movable breech block, of the kind in which a safety device is actuated to lock the sear when the magazine is removed and is disengaged so as to release the sear when the magazine is replaced in its lodgment.

The object of the invention is to provide an arrangement which will positively prevent a shot being accidentally fired if a full magazine is replaced while the operator has his finger on the trigger.

With this object in view the invention consists in providing the pistol with means whereby any pressure on the trigger causes a positive stop or shoulder to be positioned in the path of the magazine and prevents its complete effective insertion.

According to a further feature of the invention normal firing is permitted after the magazine has been placed in position, by a recess provided in the magazine which permits the free displacement of the said shoulder.

In one embodiment of the invention this locking of the magazine is obtained by means of a shoulder on the trigger which is adapted to co-operate with a corresponding part of the magazine.

Further details and features of the invention will appear from the following description given with reference to the accompanying drawings which illustrate one embodiment of the invention by way of example and in a non-limiting manner.

Figure 1 is a perspective view of an automatic pistol according to the invention with parts in section.

Figure 2 is a half section of the hand grip and lock mechanism in elevation with the magazine partly inserted.

In the grip 2p of the automatic pistol 2, having a movable breech block 2g and a barrel 2f locked upon the body 2b, is

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lodged the magazine 2m. This magazine 2m which is constructed in the usual manner is held in its lodgment by the stop member 2a upon which presses the spring 2r. As soon as the magazine is withdrawn from its lodgment the weapon is put into a condition of safety by a shoulder 3t on a lever such as 3a, housed in the rear of the grip, pivoting about the pin 2t and acted upon by a spring 3r, which shoulder 3t engages under the lug 3k on the sear 3 in its normal firing position, as soon as the upper edge of the magazine 2m, when withdrawn from the grip, has disengaged the incline 3p on this lever 3a.

The invention enables accidents to be avoided which might be produced by the accidental firing of a shot when the operator has his finger on the trigger 4 and the magazine 2m comes into contact with the incline 3p on the lever 3a. For this purpose, when the operator actuates the trigger 4, he prevents the upper edge of the magazine 2m from coming into contact with the incline 3p on the lever 3a.

With this object in view the sear actuating rod 4a which connects the trigger 4 to the sear 3 is provided with a shoulder 4k against which the magazine abuts towards the end of its re-engagement in the grip if the trigger 4 is pressed right back at this moment.

In order to make it possible to fire a shot only when the magazine 2m has been completely inserted into the grip 2p and has pushed back the lever 3a against the bottom of the grip, thus disengaging the sear 3, the wall of this magazine comprises a notch such as 2v into which the shoulder 4k penetrates when the operator presses the trigger 4.

When the magazine is lodged in the grip, the sear 3 may be locked and unlocked at will by means of a safety catch such as 4s constructed in the known manner.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. Automatic small arm of the kind put in a condition of safety by the withdrawal

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- of the magazine and re-established in firing condition by the re-insertion of the magazine, characterised by the feature that any pressure on the trigger causes a  
5 positive stop or shoulder to be positioned in the path of the magazine and prevents its complete effective insertion.
2. Automatic small arm put in a condition of safety by the withdrawal of the  
10 magazine, according to Claim 1, characterised by the feature that normal firing is permitted after the magazine has been placed in position, by a recess provided in the magazine which permits the free dis-  
15 placement of the said positive stop or shoulder.
3. Automatic small arm according to Claim 1 or 2, characterised by the feature that the locking of the magazine is effected by means of a shoulder on the  
20 trigger mechanism.
4. Automatic small arm according to Claim 3, characterised by the feature that this shoulder is disposed upon the actuating rod connecting the trigger to the  
25 sear.
5. The improved automatic small arm substantially as described and as illustrated in the accompanying drawing.

Dated this 31st day of January, 1929.  
MARKS & CLERK.

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[This Drawing is a reproduction of the Original on a reduced scale.]

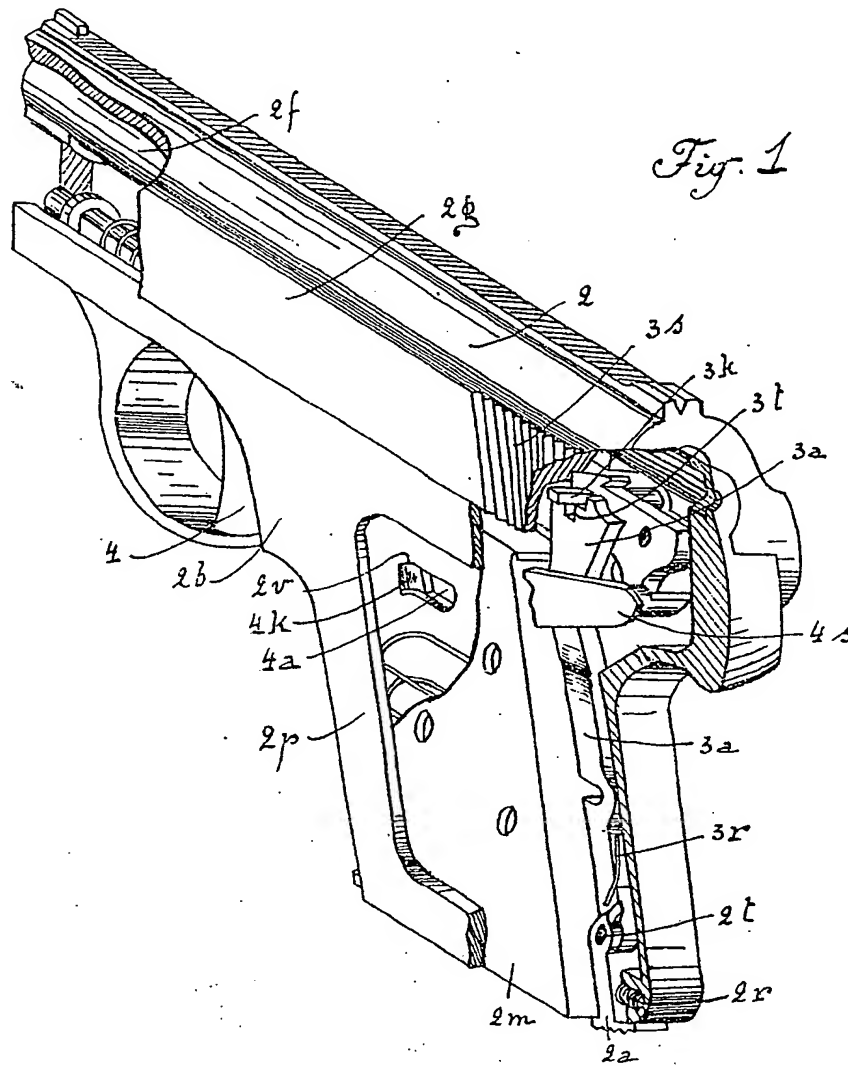
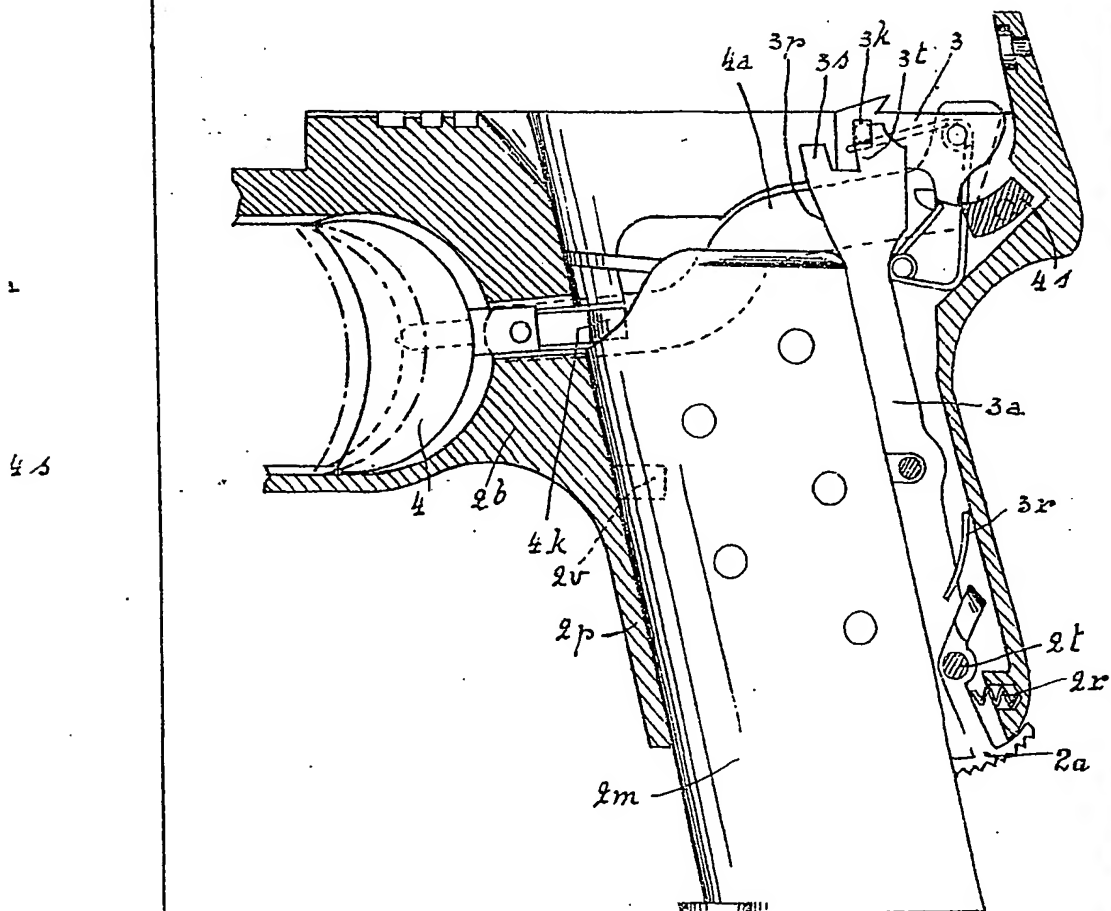


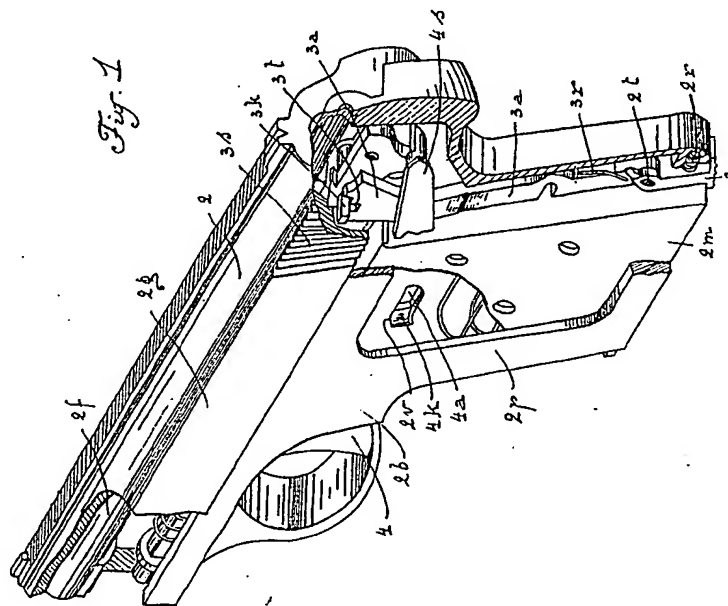
Fig. 2.



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2 SHEETS  
SHEET 2

SHEET 1



[This Drawing is a reproduction of the Original on a reduced scale]

Fig. 1

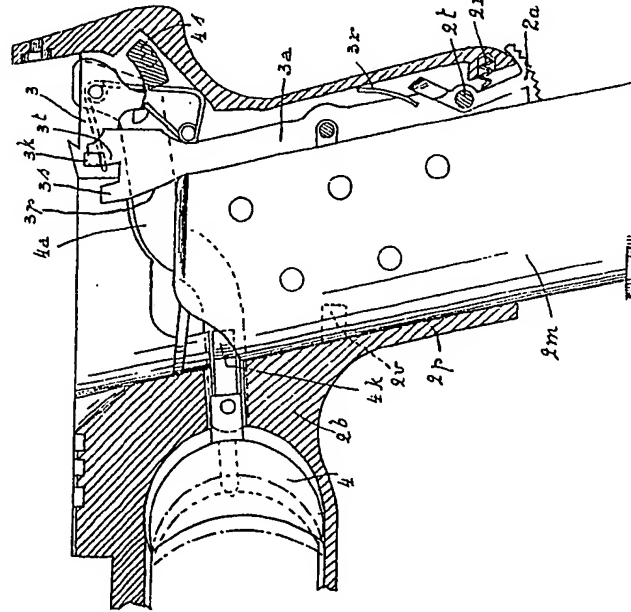


Fig. 2

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